

AMENDMENTS TO THE SPECIFICATION

In the Specification:

Please replace paragraph [0034] with the following amended paragraph:

[0034] Figure 2 illustrates one embodiment of a programmable signal filter for use in a satellite such as the satellite 120 from Figure 1. Rather than using a pair of specially designed transponders to filter the various frequency bands, the illustrated embodiment uses a programmable digital filter 230. The digital filter 230 includes an N-bit sampler 240 to sample an input signal 225 at a particular sample rate and quantize each sample into an Nbit value. The sample rate and the number of bits N are selected so that the input signal 225 can be reliably reconstructed from the samples. The sample frequency is at least twice the maximum desired frequency in the input signal 225. The number of bits N depends on the desired granularity of samples. A four bit sample, for instance, can distinguish 16 levels, five bits can distinguish 32 levels, and so on.